

Glenbard District 87

Course Title: Biology

Unit: Sustainability

Stage 1 – Desired Results	
<p>Established Goal(s): <i>What relevant goals (e.g. Content standards, course or program objectives, learning outcomes, etc.) will this address?</i></p> <p>HS ESS3-1 Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in the climate have influenced human activity.</p> <p>HS ESS3-3 Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.</p> <p>HS ESS3-4 Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.</p>	
<p>Understanding(s): <i>Students will understand that...</i></p> <p>Natural hazards and geological events shape the course of human activities. human activities influence the environment. Humans continuously modify technological advances to increase benefits and decrease costs and risks to the environment and society.</p>	<p>Essential Question(s): <i>What provocative questions will foster inquiry, understanding, and transfer of learning?</i></p> <p>How do natural resources and natural hazards affect human activities? What major technological advancements have humans made to address environmental conditions? How can humans maintain sustainable population levels of natural systems (water usage, urban development, or pollution)?</p>
<p>Knowledge: <i>Students will know...</i></p> <ol style="list-style-type: none"> 1. examples of natural hazards and how these natural hazards influence human activity. 2. examples of natural resources 3. limits and renewability of natural resources 4. how to define and use the term sustainability 5. why maintaining biodiversity is important 6. that activities and technologies can be engineered to reduce people’s impacts on Earth 	<p>Skills: <i>Students will be able to ...</i></p> <ol style="list-style-type: none"> 1. construct an explanation of how resource availability or natural hazards have guided the development of human society. 2. Create a simulation that shows the responsible management of resources and responsible management of biodiversity. 3. Evaluate a solution that reduces human impact on the Earth

